Vapor Pressure Data for a Number of Common Gases

En-Cryogenics

Kelvin Park, 266 Second Avenue, Waltham, Massachusetts 02154 (617) 890-9400 Telex 92-3442

	Compound	Data Temp. Range °K	Temperatures (°K) for Vapor Pressure (torr)																
s			10-13	10 ''	10-11	10-10	10-7	10 1	10 -7	10-	10-5	10-4	づ 10-3	10-2	10~	1	10'	10²	103
Не	HELIUM	0.9 - 5.2													0.98	1.268	1.738	2.634	4 518
Н,	HYDROGEN	14 - 21	2.67	2.83	3.01	3.21	3.45	3.71	4.03	4.40	4.84	5.38	6.05	6.90	8.03	9.55	11.70	15.10	21.4
Ne	NEON	15 - 45	5.50	5.79	6.11	6.47	6.88	7.34	. 7.87	8.48	9.19	10.05	11.05	12.30	13.85	15.80	18.45	22.10	27.5
CH.	METHANE	48 - 112	24 0	25.3	26.7	28.2	30.0	32.0	34.2	36.9	39.9	43.5	47.7	52.9	59.2	67.3	77.7	91.7	1150
F,]	FLUORINE	54 - 89			·											(55.2)	l ⊙ 59.5	70.5	87.5
N,	NITROGEN	54 - 128	18 ;	190	20 0	21,1	22.3	23.7	-25 2	27.0	29.0	31 4	34.1	37 5	41 5	47.0	540	9 634	£0 0
CO	CARBON MONOXIDE	56 - 133	20.5	21.5	22.6	23.8	25.2	26.7	28.4	30.3	32.5	35.0	38.0	41.5	45.8	51.1	57.9	67.3	84.1
0,	OXYGEN	57 - 154	21.8	22.8	24.0	25.2	26.6	28.2	29.9	31.9	34.1	36.7	39.8	43.3	48.1	54.1	62.7	74.5	92.8
Kr	KRYPTON	63 - 121	27.9	29.4	30.9	32.7	34.6	36.8	39.3	42.2	45.5	49.4	53.9	59.4	66.3	74.8	85.9	101.0	o 123.5
NO	NITRIC OXIDE	73 - 180	37.7	39.4	41,3	43.4	45.6	48.1	50.9	54.0	57.6	61.6	66.3	71.7	78.1	85.7	95.0	106.5	o 123.5
Ar	ARGON	82 - 88	20.3	21.3	22.5	23.7	25.2	26.8	28.6	30.6	33.1	35.9	39.2	43.2	48.2	54.4	62.5	73.4	⊚ 89.9
N,0	NITROUS OXIDE	103 - 186	55.8	58.3	61.1	64.2	67.6	71.3	75.5	80.3	85.7	91.9	99.0	107.5	117.5	129.5	144.0	162.5	O 189.5
CO,	CARBON DIOXIDE	107 - 196	59.5	62.2	65.2	68.4	72.1	76.1	80.6	85.7	91.5	98.1	106.0	114.5	125.0	137.5	153.5	173.0	198.0
Xe	XENON	110 - 166	38.5	40.5	42.7	45.1	47.7	50.8	54.2	58.2	62.7	68.1	74.4	82.1	91.5	103.5	118.5	139.5	o 170.0
HBr	HYDROGEN BROMIDE	120 - 205	51.8	54.3	57.1	60.2	63.7	67.6	72.1	77.1	82.9	89.6	97.5	107.0	118.5	132.5	151.0	175.0	o 209.0
HCI	HYDROGEN CHLORIDE	132 - 195	49.7	52.1	54.6	57.5	60.6	64.1	68.1	72.5	77.6	83.4	90.1	98.1	108.5	121.0	137.0	158.5	စ် 193.0
NH,	AMMONIA	145 - 240	70.9	74.1	77.6	81.5	85.8	90.6	95.9	102.0	108.5	116.5	125.5	136.0	148.0	163.0	181.0	စ် 206.0	245.0
H,5	HYDROGEN SULFIDE	153 - 213	57.1	59.8	62.7	65.9	69.5	73.5	78.0	83.1	89.0	·95.7	103.5	113.5	124.5	138.5	156.5	180.5	စ် 218.0
cos	CARBONYL SULFIDE	162 - 224													(124.5)	o 139.5	159.5	187.0	229.0
CI,	CHLORINE	162 - 420	66.1	69.1	72.4	76.0	80.0	84.4	89.4	95.1	101.5	109.0	117.5	127.5	140.0	155.0	စ် 173.0	201.0	245.0
H,O	WATER	175 - 380	113.0	418.5	124.0	130.0	137.0	144.5	153.0	162.0	173.0	185.0	198.5	215.0	233.0	256.0	o 284.0	325.0	381.0
S0,	SULFUR DIOXIDE .	178 - 263	78.9	82.4	86.3	90.4	95.1	100.0	106.0	112.5	119.5	128.0	137.5	148.5	161.5	177.0	195.5	o 225.0	269.0
cs,	CARBON DISULFIDE	194 - 319									1			(160.0)	0 177.5	199.5	228.0	269.0	329.0
HF	HYDROGEN FLUORIDE	240 - 290			.						1	·				(179.0)	o 207.0	245.0	301.0
Br,	BROMINE	253 - 331	102.0	106.5	111.0	116.5	122.0	128.5	135.5	143.5	152.5	163.0	174.5	188.5	204.0	224.0	248.0	O 282.0	339.0
1,	INDINE	298 - 456	141.5	147.5	154.0	161.5	169.5	178.5	100 5	199.5	212.0	226.0	243.0	262.0	285.0	312.0	345.0	o 389.0	471.0
		OMelun !	Point	Tra	13/400	Point													